Colbert
COLSF 8.4 VI

LANDAU
ASSOCIATES,
INC.
Geoenvironmental Engineering and Technologies

August 8, 1990

Mr. Mike Kuntz
Washington State Department of Ecology
M/S PV-11
Olympia, WA 98504-8711

RE: JULY 1990 PROGRESS REPORT
COLBERT LANDFILL RD/RA

Dear Mr. Kuntz:

Presented herein is the July 1990 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc. (Landau Associates), Spokane County's engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- A description of remedial action activities commenced or completed during the reporting period
- Remedial action activities projected for the next reporting period (through August 1990)
- Any problems that have been encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Several activities were commenced and/or completed during the reporting period. Most of these activities are related to continuation of Phase I field activities and pilot study final design. Specifically, activities accomplished during this period include:

- Well construction activities were completed at two Phase I well locations (refer to attached Site Plan, Figure 1).
  - Monitoring Well CD-47 was completed (August 1). The well is screened in the Lower Sand/Gravel Aquifer from about 275 to 295 ft below ground surface (BGS).
  - The boring for Pilot Well CP-W1 was completed. The boring was advanced to about 305 ft BGS and is terminated in the Lower Sand/Gravel Aquifer. The well will be screened in the Lower Sand/Gravel Aquifer from about 275 to 295 ft BGS, as shown in the well design drawing recently forwarded to EPA and Ecology representatives.
- Well depth and depth to water measurements were collected from Upper Sand/Gravel Aquifer monitoring wells constructed prior to Phase I. Based on these data, aquifer saturated thickness may be adequate (greater than about one foot) for ground water sampling in Monitoring Wells CD-2(U), CD-6(U), CS-4, CS-13, and CS-14(U). Ground water samples will be collected from these wells (if practicable) and analyzed for volatile organic compounds to provide data on contaminant concentrations in the Upper Sand/Gravel Aquifer near the Colbert Landfill.

- Elevation and location surveys for Phase I pipeline routings were completed for all primary alignments. Surveying is ongoing for alternative alignments for some pipeline segments (see Section 3.0 of this report for additional details).
- Final design of various Phase I components is ongoing.
  - Specifications for construction of the Highway 2 pipeline crossing were prepared. Mountain Crest Enterprises, Inc. provided an acceptable cost proposal for the work and was given notice to proceed with construction.
  - Specifications for supplying the pilot treatment plant were prepared and forwarded to equipment vendors for development of bid proposals.
  - Specifications for construction of the Phase I pipelines were prepared and submitted to Mountain Crest Enterprises, Inc. for development of a cost proposal. The work will be awarded to Mountain Crest Enterprises, provided their bid price is consistent with a previous cost estimate.
  - Discussions are ongoing with Washington Water Power concerning electrical service for the pilot treatment facilities and pilot wells.
  - Preliminary design of the East System air monitoring system was initiated.
- The Final Phase I Treatment and Discharge Plan and a response letter addressing EPA and Ecology Plan comments were submitted to EPA and Ecology on July 20, 1990.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule for Submittal of Deliverables, the next reporting period extends through August 1990. Anticipated activities for August include completion of well construction and development activities, ground water sampling, continuation of pilot study final design, and initiation of pilot system construction. Specific activities anticipated for the next reporting period include:

- Complete construction of Pilot Well CP-W1. The well will be constructed as described in Section 1.0 of this report (by early August).
- Initiate and complete well development for wells CD-47 and CP-W1 (by mid August).
- Initiate and complete ground water sampling for wells CD-47 and CP-W1; Monitoring Wells CD-2(U), CD-6(U), CS-4, CS-13, and CS-14(U) will also be sampled, if practicable (by late August).
- Complete procurement of the pilot stripping tower. Vendor bids will be evaluated, and a vendor selected to provide the pilot stripping tower (by mid August). Mid September equipment delivery is anticipated.
- Complete construction of the Highway 2 pipeline crossing (by late August).

- Complete initial design of the East System air monitoring system. Design details will be provided to EPA and Ecology following completion (by late August).
- Initiate construction of Phase I pipelines and treatment site facilities (tentative, by late August).

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

A problem was encountered in obtaining a property easement for the West/East System effluent pipeline segment between Highway 2 and the Little Spokane River. Verbal approval was obtained from (b) (6) in early June for routing the effluent pipeline across his property. Since his initial verbal approval, (b) (6) has conducted property access negotiations with Spokane County through legal counsel (which has significantly slowed the process), and has raised a number of concerns and established access preconditions that may make an easement across his property impracticable (unless condemnation procedures are implemented). Other pipeline routings in the vicinity (near the WSDOT weigh station) are under consideration, but similar property access problems are being encountered.

If a pipeline easement cannot be secured for the preferred routing near the weigh station, it will be necessary to pursue an alternative alignment. The most probable alternative alignment is along existing Spokane County right-of-way for the North Glen Road. However, the North Glen Road alignment is significantly longer than the preferred alignment and will be more difficult (and expensive) to construct because of the existing paved road. Additionally, roadway space limitations would require closure of at least one lane of the road during construction (and possibly both lanes, intermittently), causing significant inconvenience for local residents. Consequently, other alternative alignments will also be evaluated if access to the preferred alignment cannot be secured.

The problem in securing a pipeline easement to the river has already placed pipeline construction about one week behind schedule (as of August 3), although the schedule for initiating the Phase I pilot studies is not yet effected. However, if this access problem is not resolved quickly (by about August 10), delay in startup of the Phase I pilot studies is anticipated. Spokane County is aggressively pursuing property access, and will continue to do so. EPA and Ecology will be kept apprised of the situation, and of the impact (if any) to the schedule for Phase I pilot study activities.

* * * * * * * * * * *

This progress report describes the major remedial action activities commenced or completed during the reporting period, anticipated to be commenced or completed during the next reporting period, and any problems encountered or anticipated. As such, there are secondary and peripheral activities associated with these major tasks that are not described

herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

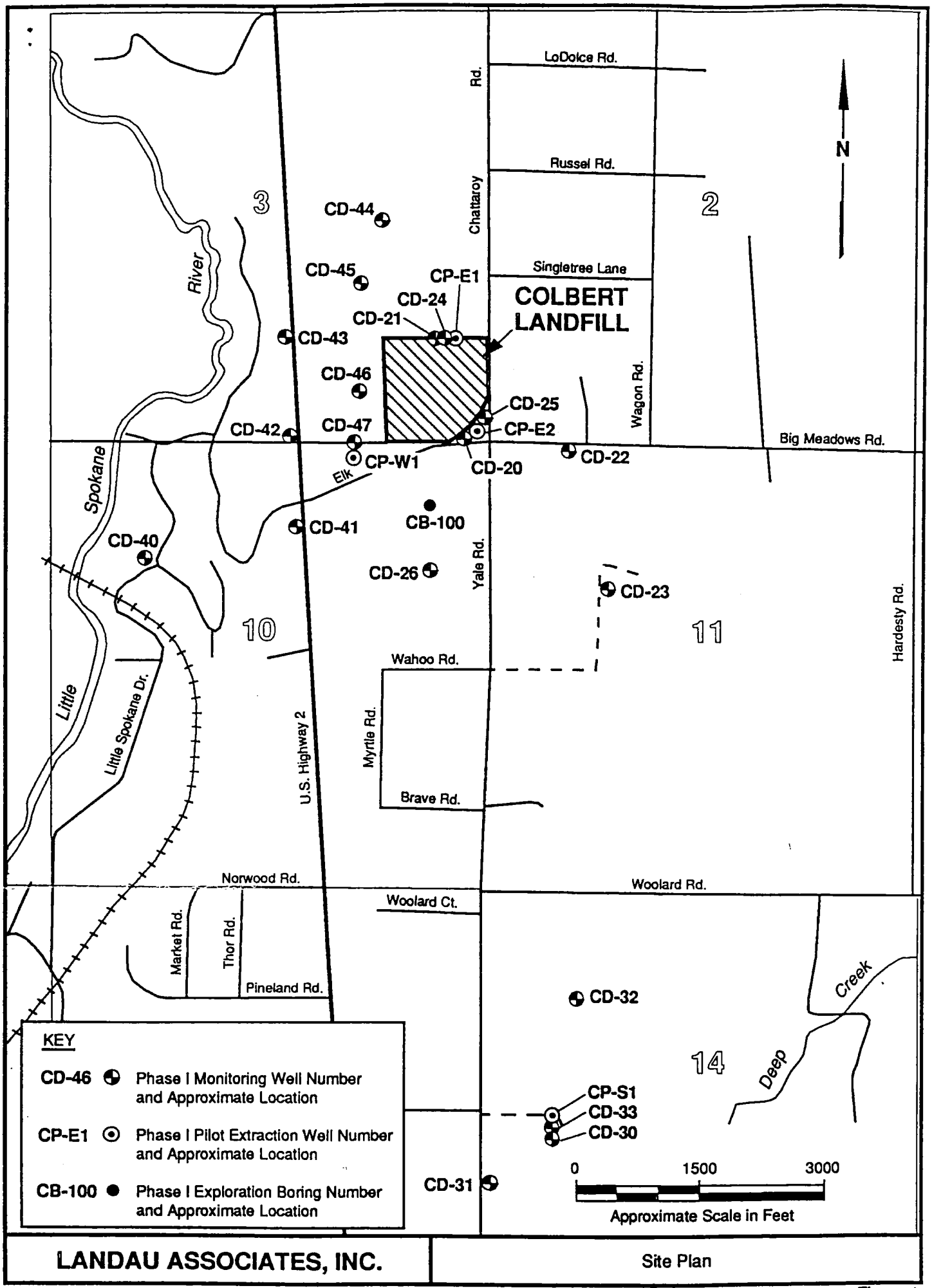
LANDAU ASSOCIATES, INC.

By:

Lawrence D. Beard, P.E.
Project Manager

LDB/tmc
attachment
COLBERT\PROGRPT.JUL

cc: Neil Thompson, EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment



LANDAU ASSOCIATES, INC.

Site Plan

Figure 1

124-01.80 Spokane Co./Colbert Landfill/July 1990 Progress Report 8/9/90